

HISTORY KEPT YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		ILLINOIS HIGHWAY INFORMATION SYSTEM STRUCTURE INFORMATION AND PROCEDURE MANUAL	
NBIS REQUIRED YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		ITEM NAME DECK GEOMETRY APPRAISAL	ITEM NO. 68 PAGE 1 of 4 EFF. DATE 07/01/02
		ISIS	MMIS
RESPONSIBLE FOR UPDATE	Computer Generated		N/A
STRUCTURES	All		N/A
UPDATE SCREENS	None		N/A
INQUIRY SCREENS	(4) Inspection / Appraisals		(2) Inspection - 1 of 2

DESCRIPTION AND PURPOSE OF ITEM

The overall rating for deck geometry includes two evaluations:

- (a) The curb-to-curb or face-to-face of rail bridge width using Table 2A, B, C or D,
and
- (b) The minimum vertical clearance over the bridge roadway using Table 2E.

The lower of the codes obtained from these tables is used.

The curb-to-curb or face-to-face of rail dimension is taken from Item 51 - Bridge Roadway Width. Item 53A & B - Minimum Vertical Clearance Over Bridge Roadway is used to evaluate the vertical clearance.

The values provided in the tables are for rating purposes only. Current design standards must be used for structure design or rehabilitation.

History is retained for this item based on each Inspection Date - Item 90. Daily calculated values are not retained.

CODE AND SCREEN ENTRY INSTRUCTIONS

DO NOT CODE - This item is computer generated utilizing the discussion above and the following tables.

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Table 2A & 2B. Rating by Comparison of ADT - Item 29 and
Bridge Roadway Width, Curb-to-Curb - Item 51

TABLE 2A							TABLE 2B	
Deck Geometry Rating Code	Bridge Roadway Width 2 Lanes, 2-Way Traffic; Also 1 Lane Bridges Not Designated as Ramps (Key Route Appurtenance not "4")						Bridge Roadway Width 1 Lane, 2-Way Traffic	
	ADT (Both Directions)						ADT (Both Directions)	
	0 - 100	101 - 400	401 - 1000	1001 - 2000	2001 - 5000	> 5000	0 - 100	> 100
9	> 32	> 36	> 40	> 44	---	---	---	---
8	= 32	= 36	= 40	= 44	> 44	---	> 15'-11"	---
7	≥ 28	≥ 32	≥ 36	≥ 40	= 44	> 44	≥ 15	---
6	≥ 24	≥ 28	≥ 30	≥ 34	≥ 40	= 44	≥ 14	---
5	≥ 20	≥ 24	≥ 26	≥ 28	≥ 34	≥ 38	≥ 13	---
4	≥ 18	≥ 20	≥ 22	≥ 24	≥ 28	≥ 32 (28*)	≥ 12	---
3	≥ 16	≥ 18	≥ 20	≥ 22	≥ 26	≥ 30 (26*)	≥ 11	≥ 15'-11"
2	< 16	< 18	< 20	< 22	< 26	< 30 (26*)	< 11	< 15'-11"
0	Bridge closed.							

* Use value in parentheses for bridges longer than 200 feet.

Notes:

1. Use the lower rating code for values between those listed in the table.
2. Dimensions are in feet.
3. For 3 or more undivided lanes of 2-way traffic, use Table 2C, "Other Multilane Divided Facilities."
4. **Use Table 2A, not Table 2B, for code 9 and for codes 8 through 4 inclusive when the ADT > 100. Single lane bridges less than 16 feet wide carrying 2-way traffic are always appraised at 3 or below if they carry more than an ADT of 100.**

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Table 2C & 2D. Rating by Comparison of Number of Lanes - Item 28
and Bridge Roadway Width, Curb-to-Curb - Item 51

TABLE 2C					TABLE 2D	
Deck Geometry Rating Code	Bridge Roadway Width 2 or More Lanes Each Direction				Bridge Roadway Width 1-Way Traffic	
	Interstate and Other Divided Freeways		Other Multilane Divided Facilities		Ramps Only	
	2 Lanes	3 or More Lanes	2 Lanes	3 or More Lanes	1 Lane	2 or More Lanes
9	> 42	> 12N+24	> 42	> 12N+18	> 26	> 12N+12
8	= 42	= 12N+24	= 42	= 12N+18	= 26	= 12N+12
7	≥ 40	≥ 12N+20	≥ 38	≥ 12N+15	≥ 24	≥ 12N+10
6	≥ 38	≥ 12N+16	≥ 36	≥ 12N+12	≥ 22	≥ 12N+8
5	≥ 36	≥ 12N+14	≥ 33	≥ 11N+10	≥ 20	≥ 12N+6
4	≥ 34 (29) *	≥ 11N+12 (11N+7) *	≥ 30	≥ 11N+6	≥ 18	≥ 12N+4
3	≥ 33 (28) *	≥ 11N+11 (11N+6) *	≥ 27	≥ 11N+5	≥ 16	≥ 12N+2
2	< 33 (28) *	< 11N+11 (11N+6) *	< 27	< 11N+5	< 16	< 12N+2
0	Bridge closed.					

* Use value in parentheses for bridges longer than 200 feet.
N = number of lanes of traffic

Notes:

Use the lower rating code for values between those listed in the table.

2. Dimensions are in feet.

3. Use Table 2C, "Other Multilane Divided Facilities", for 3 or more undivided lanes of 2-way traffic.

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Table 2E. Rating by Comparison of Minimum Vertical Clearance over
Bridge Roadway - Item 53 and Functional Classification - Item 26

Deck Geometry Rating Code	Minimum Vertical Clearance		
	Functional Class (FC) For Route On Structure		
	Interstate and Other Freeway (FC = 10,20)	Other Principal and Minor Arterials (FC = 21, 30, 40, 70)	Major and Minor Collectors and Locals (FC = 50, 55, 60, 80, 90)
	All Routes - Except as Noted for Urban Areas		
9	> 17'-0"	> 16'-6"	> 16'-6"
8	= 17'-0"	= 16'-6"	= 16'-6"
7	≥ 16'-9"	≥ 15'-6"	≥ 15'-6"
6	≥ 16'-6"	≥ 14'-6"	≥ 14'-6"
5	≥ 15'-9"	≥ 14'-3"	≥ 14'-3"
4	≥ 15'-0"	≥ 14'-0"	≥ 14'-0"
3	Vertical clearance less than value in rating code of 4 and requiring corrective action. (See Item 75A)		
2	Vertical clearance less than value in rating code of 4 and requiring replacement. (See Item 75A)		
0	Bridge closed.		

Notes:

1. Use the lower rating code for values between those listed in the table.
2. If the structure's Functional Class = 20 and the urban area code is "0000", the structure is evaluated in Table 2E as if its Functional Class = 21.